

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/ S87, S23
Source: IFWP
Date Processed by STIC: 4/27/07

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IFWP

RAW SEQUENCE LISTING

DATE: 04/27/2007

PATENT APPLICATION: US/10/587,523

TIME: 11:47:31

Input Set : A:\10050628.APP

Output Set: N:\CRF4\04272007\J587523.raw

3 <110> APPLICANT: MASTROIANNI, NADIA
 4 CAINARCA, SILVIA
 5 CORAZZA, SABRINA
 7 <120> TITLE OF INVENTION: PHOTOPROTEINS WITH ENHANCED BIOLUMINESCENCE AND ASSAYS
 8 USING THE SAME
 10 <130> FILE REFERENCE: 100506-00028
 12 <140> CURRENT APPLICATION NUMBER: 10/587,523
 C--> 13 <141> CURRENT FILING DATE: 2006-07-27
 15 <150> PRIOR APPLICATION NUMBER: 05005390.9
 16 <151> PRIOR FILING DATE: 2005-11-03
 18 <150> PRIOR APPLICATION NUMBER: 06000171.6
 19 <151> PRIOR FILING DATE: 2006-05-01
 21 <160> NUMBER OF SEQ ID NOS: 24
 23 <170> SOFTWARE: PatentIn Ver. 3.3
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 198
 27 <212> TYPE: PRT
 28 <213> ORGANISM: *Clytia gregaria*
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 34 Asp Asn Pro Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu
 35 20 25 30
 37 Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys
 38 35 40 45
 40 Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr
 41 50 55 60
 43 Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met
 44 65 70 75 80
 46 Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys
 47 85 90 95
 49 Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser
 50 100 105 110
 52 Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp
 53 115 120 125
 55 Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile
 56 130 135 140
 58 Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His
 59 145 150 155 160
 61 Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg
 62 165 170 175
 64 Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Asn Ala Asp Gly Leu
 65 180 185 190

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67 Tyr Gly Asn Phe Val Pro

68 195

71 <210> SEQ ID NO: 2

72 <211> LENGTH: 198

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74 <213> ORGANISM: Artificial Sequence

76 <220> FEATURE:

77 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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81 Met Ala Asp Thr Ala Ser Lys Tyr Ala Val Lys Leu Arg Pro Asn Phe

82 1 5 10 15

84 Asp Asn Pro Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu

85 20 25 30

87 Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys

88 35 40 45

90 Ala Ser Asp Asp Ile Ser Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr

91 50 55 60

93 Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met

94 65 70 75 80

96 Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys

97 85 90 95

99 Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser

100 100 105 110

102 Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp

103 115 120 125

105 Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile

106 130 135 140

108 Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His

109 145 150 155 160

111 Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg

112 165 170 175

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117 Tyr Gly Asn Phe Val Pro

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124 <213> ORGANISM: Artificial Sequence

126 <220> FEATURE:

127 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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130 <400> SEQUENCE: 3

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132 1 5 10 15

134 Asp Asn Pro Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu

135 20 25 30

137 Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys

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138          35          40          45
140 Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr
141          50          55          60
143 Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met
144 65          70          75          80
146 Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys
147          85          90          95
149 Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser
150          100          105          110
152 Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp
153          115          120          125
155 Gly Ser Gly Cys Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile
156          130          135          140
158 Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His
159 145          150          155          160
161 Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg
162          165          170          175
164 Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Asn Ala Asp Gly Leu
165          180          185          190
167 Tyr Gly Asn Phe Val Pro
168          195
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177 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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184 Asp Asn Pro Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu
185          20          25          30
187 Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Arg
188          35          40          45
190 Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr
191          50          55          60
193 Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met
194 65          70          75          80
196 Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys
197          85          90          95
199 Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser
200          100          105          110
202 Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp
203          115          120          125
205 Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile
206          130          135          140
208 Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His
209 145          150          155          160

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211 Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg
212           165                      170                      175
214 Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Asn Ala Asp Gly Leu
215           180                      185                      190
217 Tyr Gly Asp Phe Val Pro
218           195
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224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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234 Asp Asn Pro Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu
235           20                      25                      30
237 Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys
238           35                      40                      45
240 Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr
241           50                      55                      60
243 Lys Arg His Arg Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met
244   65           70                      75                      80
246 Asp Tyr Gly Lys Glu Val Glu Phe Pro Val Phe Val Asp Gly Trp Lys
247           85                      90                      95
249 Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser
250           100                     105                     110
252 Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp
253           115                     120                     125
255 Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile
256           130                     135                     140
258 Ser Gly Ile Cys Ser Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His
259 145           150                     155                     160
261 Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg
262           165                     170                     175
264 Gln His Leu Gly Phe Trp Tyr Ile Leu Asp Pro Asn Ala Asp Gly Leu
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267 Tyr Gly Asn Phe Val Pro
268           195
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276 <220> FEATURE:
277 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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282   1           5           10           15
284 Asp Asn Pro Lys Trp Val Asn Arg His Lys Phe Met Phe Asn Phe Leu
285           20           25           30
287 Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys
288           35           40           45
290 Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr
291           50           55           60
293 Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met
294           65           70           75           80
296 Asp Phe Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys
297           85           90           95
299 Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Asn Lys Ser
300           100          105          110
302 Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Leu Asp Lys Asp
303           115          120          125
305 Gly Ser Gly Ser Ile Ser Leu Asp Glu Trp Lys Ala Tyr Gly Arg Ile
306           130          135          140
308 Ser Gly Ile Cys Arg Ser Asp Glu Asp Ala Glu Lys Thr Phe Lys His
309           145          150          155          160
311 Cys Asp Leu Asp Asn Ser Gly Lys Leu Asp Val Asp Glu Met Thr Arg
312           165          170          175
314 Gln His Leu Gly Phe Trp Tyr Thr Leu Asp Pro Asn Ala Asp Gly Leu
315           180          185          190
317 Tyr Gly Asn Phe Val Pro
318           195
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323 <212> TYPE: PRT
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335           20           25           30
337 Asp Ile Asn Gly Asp Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys
338           35           40           45
340 Ala Ser Asp Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr
341           50           55           60
343 Lys Arg His Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met
344           65           70           75           80
346 Asp Tyr Gly Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys
347           85           90           95
349 Glu Leu Ala Asn Tyr Asp Leu Lys Leu Trp Ser Gln Asn Lys Lys Ser
350           100          105          110
352 Leu Ile Arg Asp Trp Gly Glu Ala Val Phe Asp Ile Phe Asp Lys Asp
353           115          120          125

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VERIFICATION SUMMARY

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date